JOURNAL

of the

New England Water Works Association

VOLUME LXXXV
1971

Published by

THE NEW ENGLAND WATER WORKS ASSOCIATION

726 Statler Office Bldg., Boston, Mass. 02116

KUM

The four numbers comprising this volume
have been separately copyrighted in 1971-1972
by the New England Water Works Association

AUTHOR INDEX

Babcock, Russell H., Well Level Measurement Method, 1, Mar.

Bergin, Francis T., Dorchester Tunnel of the Metropolitan Boston Water System, 309, Dec.

Bishop, Stephen L., Methods for Treating Wastes from Water Treatment Plants, 10, Mar.

Collins, Daniel, Oil Spills at Lebanon, New Hampshire, 157, June.

Coogan, George J., The Increase in Chlorides Experienced in Massachusetts Water Supplies, 173, June.

Eckloff, Russell A., The Control of Pollution from Boating Activities, 149, June.

Gallagher, David L., How WWEMA Works for the Water Works, 179, June.

Grady, Robert P., Portland Water District's Experience with a Cross Connection Survey, 234, Sept.

Hall, Henry L. Jr., Local Aspects of Financing Water Systems in New England, 251, Sept.

Harris, Robert H., Evaluation and Control of Filter Aids Using Interface Turbidity Monitoring, 209, Sept.

Heney, Joseph E., Brockton Solves Its Water Problems, 115, June.

Hickey, Joseph L., Automated Billing for Water Departments As Applied by the Metropolitan District Water Bureau, Hartford, Connecticut, 285, Sept.

Higgins, Augustine A., Brockton Solves Its Water Problems, 115, June.

Lipman, Martin, Legal Aspects of a Water Utility's Responsibility, 282, Sept.

Medlar, Steven J., Comprehensive Analysis of the Attleboro Water System Using Computer Techniques, 259, Sept.

KUM

Medowski, Tadeus J., Dorchester Tunnel of the Metropolitan Boston Water System, 309, Dec.

Newell, Laird I., Mercury and other Heavy Metals in Water Supplies, 289, Sept.

Peters, Leo F., Modernization and Expansion of a 30-Year Old Treatment Plant, — Weymouth, Mass., 25, Mar.

Preble, Ralph E., Well Drilling in Southeast Asia, 132, June.

Sargent, Harold E., The Federal Water Report and Its Impact on Vermont's Public Water Supplies, 160, June.

Shea, Walter J., The Impact of Pollution on Water Supplies in Rhode Island, 168, June.

Snow, Ernest A., An Algae Bloom in the Connecticut River, 243, Sept.

Taylor, Floyd B., Safety of Surface Water Supplies in New England, 139, June.

Viraraghavan, T., Tube Clarification — Theory and Practice, 325, Dec.

Woodhull, Richard S., Protection of Connecticut's Public Water Supplies, 296, Sept.

SUBJECT INDEX

Algae Bloom in the Connecticut River, An. By Ernest A. Snow, Jr. 243, Sept.

Attleboro Water System Using Computer Techniques, Comprehensive Analysis of the. By Steven J. Medlar. 259, Sept.

Asia, Well Drilling in Southeast. By Ralph E. Preble. 132, June.

Automated Billing for Water Department as Applied by the Metropolitan District Water Bureau, Hartford, Connecticut. By Joseph L. Hickey. 285, Sept.

Boating Activities, The Control of Pollution from. By Russell A. Eckloff. 149, June.

Book Review: The Water Encyclopedia. Edited by David Keith Todd. 204, June.
Agricultural Practices and Water Quality. Edited by Ted L. Willrick. 204, June.
Memphis' Greatest Debate. By William Wright Worrels. 206, June.

Boston Water System, Dorchester Tunnel of the Metropolitan. By Francis T. Bergin and Tadeus J. Medowski, 309, Dec.

Brockton Solves Its Water Problems. By Augustine A. Higgins and Joseph E. Heney. 115, June.

Chlorides, Experiment in Massachusetts Water Supplies, The Increase in. By George V. Coogan. 173, June.

Comprehensive Analysis of the Attleboro Water System Using Computer Techniques. By Steven J. Medlar. 259, Sept.

Computer Techniques, Comprehensive Analysis of the Attleboro Water System Using. By Steven J. Medlar. 259, Sept.

Connecticut's Public Water Supplies, Protection of. By Richard S. Woodhull. 296, Sept.

Connecticut River, An Algae Bloom in the. By Ernest A. Snow, Jr. 243, Sept.

Control of Pollution from Boating Activities, The. By Russell A. Eckloff. 149, June.

Cross Connection Survey, Portland Water District's Experience with a. By Robert P. Grady. 234, Sept.

Dorchester Tunnel of the Metropolitan Boston Water System. By Francis T. Bergin and Tadeus J. Medowski, 309, Dec.

Evaluation and Control of Filter Aids Using Interface Turbidity Monitoring. By Robert H. Harris. 209, Sept.

Federal Water Report and Its Impact on Vermont's Public Water Supplies, The. By Harold E. Sargent. 160, June.

Financing Water Systems in New England, Legal Aspects of. By Henry L. Hall, Jr. 251, Sept.

Filter Aids Using Interface Turbidity Monitoring, Evaluation and Control of. By Robert H. Harris. 209, Sept.

Hartford, Connecticut, Automated Billing for Water Department as Applied by the Metropolitan District Water Bureau. By Joseph L. Hickey. 285, Sept.

Heavy Metals in Water Supplies, Mercury and Other. By I. Laird Newell. 289, Sept.

How WWEMA Works for the Water Works. By David L. Gallagher. 179, June.

Impact of Pollution on Water Supplies in Rhode Island, The. By Walter J. Shea. 168, June.

Increase in Chlorides Experienced in Massachusetts Water Supplies, The. By George J. Coogan. 173, June.

Lebanon, New Hampshire, Oil Spills at. By David Collins. 157, June.

Legal Aspects of a Water Utility's Responsibility. By Martin Lipman. 282, Sept.

Local Aspects of Financing Water Systems in New England. By Henry L. Hall, Jr. 251, Sept.

Massachusetts Water Supplies, The Increase in Chlorides Experienced in. By George J. Coogan. 173, June.

Measurement Methods, Well Level. By Russell H. Babcock. 1, Mar.

Memoir: Thomas Ringgold Camp. 399, Dec.

Mercury and Other Heavy Metals in Water Supplies. By I. Laird Newell. 289, Sept.

Methods for Treating Wastes from Water Treatment Plants. By Stephen L. Bishop. 10, Mar.

Modernization and Expansion of a 30-year old Treatment Plant — Weymouth, Mass. By Leo F. Peters. 25, Mar.

New England, Legal Aspects of Financing Water Systems in. By Henry L. Hall, Jr. 251, Sept.

New England, Safety of Surface Water Supplies, in. By Floyd B. Taylor. 139, June.

New England Water Works Association

Administrative Reports:

Committee on Membership. 376, Dec.
Committee on Committees. 380, Dec.
Committee on Legislation. 389, Dec.
Committee on Scholarship Awards. 377, Dec.
Editor. 371, Dec.
Finance Committee. 374, Dec.
Secretary. 359, Dec.
Treasurer. 364, Dec.
Award of Merit. 350, Dec.
Commemorative Award. 348, Dec.
Dexter Brackett Memorial Award. 346, Dec.
Election of Officers. 357, Dec.
Presidential Address. 352, Dec.

Proceedings:

November, 1970. 332, Dec.
December, 1970. 333, Dec.
January, 1971. 334, Dec.
February, 1971. 335, Dec.
March, 1971. 336, Dec.
April, 1971. 337, Dec.
May, 1971. 339, Dec.
Annual Convention, 1971. 341, Dec.

Reports of Technical Committees (1970)

Committee on Water Quality and Treatment. 44, Mar.
Committee on Specifications for Cast Iron Pipe and Fittings. 65, Mar.
Committee on Reinforced Concrete Pressure Pipe. 67, Mar.
Committee on Code for Pressure Piping. 68, Mar.
Committee on Specifications for Steel Pipe. 69, Mar.
Committee on Steel Standpipes and Elevated Tanks. 70, Mar.
Committee on Federal Activities. 71, Mar.
Committee on Deep-Well Vertical Pumps. 75, Mar.
Committee on the Conservation, Development and Utilization of Water Resources. 76, Mar.
Committee on Recreational Use of Sources of Public Water Supply. 80, Mar.
Committee on Water Works Safety Practice. 107, Mar.
Committee on Water Rates (Investor-Owned). 184, June.
Committee on Education and Certification of Water Works Personnel. 196, June.
Committee for NEWWA Water Works School. 198, June.
Committee on Available Water Works Material. 199, June.
Committees of the New England Water Works Association, 1970-1971. 200, June.

Oil Spills at Lebanon, New Hampshire. By Daniel Collins. 157, June.

Pollution from Boating Activities, The Control of. By Russell A. Eckloff. 149, June.

Pollution on Water Supplies in Rhode Island, The Impact of. By Walter J. Shea. 168, June.

Portland Water District's Experience with a Cross Connection Survey. By Robert P. Grady. 234, Sept.

Portrait of President. John J. Collins, Jr., *Frontispiece*, Mar.

Protection of Connecticut's Public Water Supplies. By Richard S. Woodhull. 296, Sept.

Rhode Island, The Impact of Pollution on Water Supplies in. By Walter J. Shea. 168, June.

Safety of Surface Water Supplies in New England. By Floyd B. Taylor. 139, June.

Theory and Practice — Tube Clarification. By T. Viraraghavan. 325, Dec.

Treatment Plant — Weymouth, Mass., Modernization and Expansion of a 30-year Old. By Leo F. Peters. 25, Mar.

Tube Clarification — Theory and Practice. By T. Viraraghavan. 325, Dec.

Turbidity Monitoring, Evaluation and Control of Filter Aids Using Interface. By Robert H. Harris. 209, Sept.

Vermont's Public Water Supplies, The Federal Water Report and Its Impact on. By Harold E. Sargent. 160, June.

Wastes from Water Treatment Plants, Method for Treating. By Stephen L. Bishop. 10, Mar.

Water Departments As Applied by the Metropolitan District Water Bureau, Hartford, Connecticut, Automated Billing for. By Joseph L. Hickey. 285, Sept.

Water Problems, Brockton Solves Its. By Augustine A. Higgins and Joseph E. Heney. 115, June.

Water Supplies in New England, Safety of Surface. By Floyd B. Taylor. 139, June.

Water Supplies, Mercury and Other Heavy Metals in. By I. Laird Newell. 289, Sept.

Water Supplies, Protection of Connecticut's Public. By Richard S. Woodhull. 296, Sept.

Water Supplies, The Federal Water Report and Its Impact on Vermont's Public. By Harold E. Sargent. 160, June.

Water Utility's Responsibility, Legal Aspects of a. By Martin Lipman. 282, Sept.

Water Works, How WWEMA Works for the. By David L. Gallagher. 179, June.

Well Drilling in Southeast Asia. By Ralph E. Preble. 132, June.

Well Level Measurement Methods. By Russell H. Babcock. 1, Mar.

Weymouth, Mass., Modernization and Expansion of a 30-year Old Treatment Plant. By Leo F. Peters. 25, Mar.

M